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The
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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

J. Todd Ichni

Acting Commissioner of Patents and Trademarks

Thomas E. Hankins

Attest

[54] LIQUID DELIVERY VEHICLE WITH REMOTE CONTROL SYSTEM

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[21] Appl. No.: 09/054,221

[22] Filed: Apr. 2, 1998

[51] **Int. Cl.⁶** **B65B 1/04**

[52] U.S. Cl. 141/231; 141/192; 222/627;
222/608; 239/172; 239/195

[58]、Field of Search 239/231, 192,
239/98, 94, 172, 195; 137/456; 222/627,
626, 628, 608; 417/316

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Primary Examiner—Steven O. Douglas
Attorney, Agent, or Firm—McAfee & Taft

[57] **ABSTRACT**

A delivery vehicle for delivering liquids to a storage location and a liquid delivery control system therefor. The apparatus comprises manual and remote actuation of a clutch controller for engaging and disengaging a clutch of the vehicle, remote and manual actuation of a throttle controller for opening and closing a throttle of the vehicle, actuation of a power take-off controller for engaging and disengaging a power take-off on the vehicle, and actuation of a valve controller for opening and closing an internal flow valve in a cargo tank on the vehicle. The apparatus also may include actuation of a reel controller for unwinding a liquid delivery hose from a reel and rewinding the hose on the reel. A method of delivering a liquid to a storage location is also disclosed.

47 Claims, 5 Drawing Sheets

